



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

401 M Street, S.W.
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DATA MATRIX

Date October 01, 2021		EPA Reg No./File Symbol 93182-5		Page 1 of 28	
Applicant's/Registrant's Name & Address Gharda Chemicals International Inc. 760 Newtown-Yardley Road, Suite 110 Newton, PA 18940		Product Gharda Permethrin Technical			
Ingredient permethrin (CAS No.: 52645-53-1; Chemical Code: 109701)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
PRODUCT SPECIFIC DATA REQUIREMENTS					
830.1550	Product Identity and Composition	45814001	Gharda Chemicals International Inc.	OWN	CSF 01/31/2018
830.1600	Description of Materials Used to Produce the Product	45814001	Gharda Chemicals International Inc.	OWN	
830.1620	Description of the Production Process	45814001	Gharda Chemicals International Inc.	OWN	
830.1650	Description of the Formulation Process	45814001	Gharda Chemicals International Inc.	OWN	
830.1670	Discussion of Formation of Impurities	45814001	Gharda Chemicals International Inc.	OWN	
830.1700	Preliminary Analysis	45804301 48116801	Gharda Chemicals International Inc. Gharda Chemicals International Inc.	OWN OWN	
830.1750	Certified Limits	45804301 48116801	Gharda Chemicals International Inc. Gharda Chemicals International Inc.	OWN OWN	CSF 01/31/2018
830.1800	Enforcement Analytical Method	45804301 48116801	Gharda Chemicals International Inc. Gharda Chemicals International Inc.	OWN OWN	
830.6302	Color	45814002	Gharda Chemicals International Inc.	OWN	
830.6303	Physical State	45814002	Gharda Chemicals International Inc.	OWN	
830.6304	Odor	45814002	Gharda Chemicals International Inc.	OWN	
830.6313	Stability to Normal and Elevated Temperatures, Metals and Metal Ions	48116802 48503601	Gharda Chemicals International Inc. Gharda Chemicals International Inc.	OWN OWN	
830.6314	Oxidation / Reduction: Chemical Incompatibility	45814002	Gharda Chemicals International Inc.	OWN	
830.6315	Flammability	45814002 48116803	Gharda Chemicals International Inc. Gharda Chemicals International Inc.	OWN OWN	
830.6316	Explosibility	45814002 48116803	Gharda Chemicals International Inc. Gharda Chemicals International Inc.	OWN OWN	
830.6317	Storage Stability	45814002	Gharda Chemicals International Inc.	OWN	

Signature

Name and Title

Frank E Sobotka, PhD

Date

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Ingredient permethrin (CAS No.: 52645-53-1; Chemical Code: 109701)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6319	Miscibility	45814002 48116803	Gharda Chemicals International Inc. Gharda Chemicals International Inc.	OWN OWN	
830.6320	Corrosion Characteristics	45814002	Gharda Chemicals International Inc.	OWN	
830.6321	Dielectric Breakdown Voltage	48116803	Gharda Chemicals International Inc.	OWN	
830.7000	pH	48503601	Gharda Chemicals International Inc.	OWN	
830.7050	UV / Visible Absorption	45814002 48116802 48503601	Gharda Chemicals International Inc. Gharda Chemicals International Inc. Gharda Chemicals International Inc.	OWN OWN OWN	
830.7100	Viscosity				Not required
830.7200	Melting Point / Melting Range	48116802 48503601	Gharda Chemicals International Inc. Gharda Chemicals International Inc.	OWN OWN	
830.7220	Boiling Point / Boiling Range	48503601	Gharda Chemicals International Inc.	OWN	
830.7300	Density / Relative Density / Bulk Density				
830.7370	Dissociation Constants in Water	45814002 48503601	Gharda Chemicals International Inc. Gharda Chemicals International Inc.	OWN OWN	
830.7520	Particle Size, Fiber Length, and Diameter Distribution				Not required
830.7550, 830.7560, 830.7570	Partition Coefficient (n-octanol/water), Shake Flask Method, Generator Method, Estimation by Liquid Chromatography	45814002	Gharda Chemicals International Inc.	OWN	
830.7840, 830.7860	Water Solubility: Column Elution Method, Shake Flask Method, Generator Column Method	45814002	Gharda Chemicals International Inc.	OWN	
830.7950	Vapor Pressure	45814002	Gharda Chemicals International Inc.	OWN	
870.1100	Acute Oral Toxicity - rat	45804302	Gharda Chemicals International Inc.	OWN	
870.1200	Acute Dermal Toxicity - rat	45804302	Gharda Chemicals International Inc.	OWN	

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Ingredient permethrin (CAS No.: 52645-53-1; Chemical Code: 109701)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.1300	Acute Inhalation Toxicity - rat	45804302	Gharda Chemicals International Inc.	OWN	
870.2400	Eye Irritation	45804302	Gharda Chemicals International Inc.	OWN	
870.2500	Skin Irritation	45804302	Gharda Chemicals International Inc.	OWN	
870.2600	Skin Sensitization	45804302	Gharda Chemicals International Inc.	OWN	

GENERIC DATA REQUIREMENTS

850.2100	Acute Avian Oral Toxicity	41888401 49511902	Permethrin Data Group II Steering Committee/Joint Venture (PDG II SC/JV)	OLD OWN	See endnote ¹
850.2200	Acute Avian Dietary Toxicity	41888402-03		OLD	See endnote ²
850.2400	Wild Mammal Toxicity				Not required / See 870 series
850.2300	Avian Reproductive Toxicity	42322901-02		OLD	See endnote ³
850.2500	Simulated or Actual Field Testing				Not required
850.1075	Freshwater Fish Toxicity	00110663 00110657 49540301	PDG II SC/JV	OLD OLD OWN	See endnote ⁴
850.1010	Freshwater Invertebrate Toxicity	00110662-63		OLD	See endnote ⁵
850.1025, 850.1035, 850.1045, 850.1055, 850.1075	Acute Toxicity Estuarine and Marine Organisms	41874901 42584001 43492902 49511901	PDG II SC/JV	OLD OLD OLD OWN	See endnote ⁶
850.1300	Aquatic Invertebrate Life Cycle (Freshwater)	43745701		OLD	See endnote ⁷

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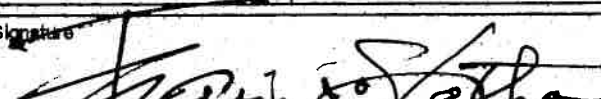
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Ingredient permethrin (CAS No.: 52645-53-1; Chemical Code: 109701)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.1350	Aquatic Invertebrate Life Cycle (Saltwater)	49554601	PDG II SC/JV	OWN	See endnote ⁸
850.1400	Fish Early Life Stage (Freshwater)	00110666		OLD	See endnote ⁹
850.1400	Fish Early Life Stage (Saltwater)				Not required
850.1500	Life Cycle Fish	00161436		OLD	See endnote ¹⁰
850.1710, 850.1730, 850.1850	Aquatic Organisms Bioavailability, Biomagnification, Toxicity	41300401-03		OLD	See endnote ¹¹
850.1950	Simulated or Actual Field Testing for Aquatic Organisms				Not required
850.1735	Whole Sediment: Acute Freshwater Invertebrates				Not required
850.1740	Whole Sediment: Acute Marine Invertebrates				Not required
N/A	Whole Sediment: Chronic Invertebrates Freshwater and Marine	48788101 48788301 49063101	PDG II SC/JV PDG II SC/JV PDG II SC/JV	OWN OWN OWN	See endnote ¹²
850.3020	Honey Bee Acute Contact Toxicity	42674501		OLD	See endnote ¹³
850.3030	Honeybee Toxicity of Residues on Foliage	42009301		OLD	See endnote ¹⁴
850.3040	Field Testing for Pollinators				Reserved ¹⁵
SS-1149	Aquatic Invertebrates Acute Toxicity	49513901	PDG II SC/JV	OWN	
870.6100	Delayed Neurotoxicity (Acute) – Hen				Not required
870.6200	Acute Neurotoxicity – Rat	43046301 45657401		OLD OLD	See endnote ¹⁶
870.3100	90-Day Oral: Rodent	00025914-15 00040491 00054737 00070577		OLD OLD OLD OLD	See endnote ¹⁷
Signature 			Name and Title Frank E Sobotka, PhD		Date 10/1/2021



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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.3150	90-Day Oral: Non-Rodent	00029832 00043722 00070576 00071951		OLD OLD OLD OLD	See endnote ¹⁸
870.3200	21/28-Day Dermal Toxicity	41143801 42653301		OLD OLD	See endnote ¹⁹
870.3250	90-Day Dermal Toxicity				Not required
870.3465	90-Day Inhalation Toxicity	00096713		OLD	See endnote ²⁰
870.6100	28-Day Delayed Neurotoxicity – Hen				Not required
870.6200	90-Day Neurotoxicity	00071952 40766807		OLD OLD	See endnote ²¹
870.4100	Chronic Oral Rodent	00069701 00120268		OLD OLD	See endnote ²²
870.4200	Cardinogenicity	00069701 00069703-04 00102110 00120268 45597105		OLD OLD OLD OLD OLD	See endnote ²³
870.4300	Combined Chronic Toxicity / Carcinogenicity	00069701 00120268		OLD OLD	See endnote ²⁴
870.3700	Reproduction / Developmental Toxicity Screening Test	40943602-03		OLD	See endnote ²⁵
870.3800	2-Generation Reproduction: Rat	00102108 00120271		OLD OLD	See endnote ²⁶

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870.6300	Developmental Neurotoxicity Study				Not required
870.5100	Bacterial Reverse Mutation Test	41031107		OLD	See endnote ²⁷
870.5300, 870.5375	In vitro Mammalian Cell Assay				Not required
870.5385, 870.5395, 870.5450, 870.5550	In vivo Cytogenetics and Other Effects	40943604 42723302		OLD OLD	See endnote ²⁸
870.7485	Metabolism and Pharmacokinetics	00054719-20 00089006		OLD OLD	See endnote ²⁹
870.7200	Companion Animal Safety				Not required
870.7800	Dermal Penetration	43169001		OLD	See endnote ³⁰
870.7800	Immunotoxicity				Not required ³¹
875.1100	Dermal Exposure – Outdoor		Agricultural Handler Exposure TF	OWN	See endnote ³²
875.1200	Dermal Exposure – Indoor		Agricultural Handler Exposure TF	OWN	See endnote ³²
875.1300	Inhalation Exposure – Outdoor		Agricultural Handler Exposure TF	OWN	See endnote ³²
875.1400	Inhalation Exposure – Indoor		Agricultural Handler Exposure TF	OWN	See endnote ³²
875.1500	Biological Monitoring		Agricultural Handler Exposure TF	OWN	See endnote ³²
875.1600	Data Reporting and Calculations		Agricultural Handler Exposure TF	OWN	See endnote ³²
875.1700	Product Use Information		Agricultural Handler Exposure TF	OWN	See endnote ³²
875.2100	Delodgeable Follar Residue and Turf Transferable Residues	43755701 44955501		OLD OLD	
875.2200	Soil Residue Dissipation		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OWN	See endnote ³³

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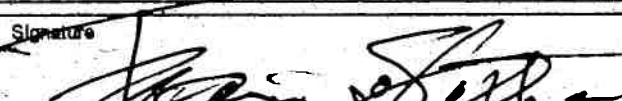


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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.2400	Dermal Exposure		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OWN	See endnote ³³
875.2500	Inhalation Exposure		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OWN	See endnote ³³
875.2600	Biological Monitoring		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OWN	See endnote ³³
875.2700	Product Use Information		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OWN	See endnote ³³
875.2800	Descriptions of Human Activity		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OWN	See endnote ³³
875.2900	Data Reporting and Calculations		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OWN	See endnote ³³
875.3000	Nondietary Ingestion Exposure		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OWN	See endnote ³³
201-1	Droplet Size Spectrum		Spray Drift TF	OWN	See endnote ³⁴
202-1	Droplet Size Spectrum		Spray Drift TF	OWN	See endnote ³⁴
890.1100	Amphibian Metamorphosis (Rat)	48988601	PDG II SC/JV	OWN	See endnote ³⁶
890.1150	Androgen Receptor Binding (Rat Prostate)				Not applicable ³⁶
890.1200	Aromatase (Human Recombinant)	48618601	PDG II SC/JV	OWN	See endnote ³⁷
890.1250	Estrogen Receptor Binding				Not applicable ³⁸
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890.1300	Estrogen Receptor Transcriptional Activation Assay				Not applicable ³⁹
890.1350	Fish Short-Term Reproduction	48702301	PDG II SC/JV	OWN	See endnote ⁴⁰
890.1400	Hershberger (Rat)	48618602	PDG II SC/JV	OWN	See endnote ⁴¹
890.1450	Female Pubertal (Rat)	48672901	PDG II SC/JV	OWN	See endnote ⁴²
890.1500	Male Pubertal (Rat)	48687101	PDG II SC/JV	OWN	See endnote ⁴³
890.1550	Steroidogenesis	48618603	PDG II SC/JV	OWN	See endnote ⁴⁴
890.1600	Uterotrophic (Rat)				Not applicable ⁴⁵
850.4100	Tier 1: Seedling Emergence	49475301	PDG II SC/JV	OWN	See endnote ⁴⁶
850.4150	Tier 1: Vegetative Vigor	49475302	PDG II SC/JV	OWN	See endnote ⁴⁷
850.4400, 850.5400	Tier 1: Aquatic Plant Growth	49398801	PDG II SC/JV	OWN	See endnote ⁴⁸
		49398803	PDG II SC/JV	OWN	
		49398804	PDG II SC/JV	OWN	
		49398805	PDG II SC/JV	OWN	
850.4100	Tier 2: Seedling Emergence	49475301	PDG II SC/JV	OWN	See endnote ⁴⁶
850.4150	Tier 2: Vegetative Vigor	49475302	PDG II SC/JV	OWN	See endnote ⁴⁷
850.4400, 850.5400	Tier 2: Aquatic Plant Growth	49398801	PDG II SC/JV	OWN	See endnote ⁴⁸
		49398803	PDG II SC/JV	OWN	
		49398804	PDG II SC/JV	OWN	
		49398805	PDG II SC/JV	OWN	
850.4300	Terrestrial Field				Not required
850.4450	Aquatic Field				Not required

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850.4025	Target Area Phytotoxicity				Not required
850.4550	Cyanobacteria Toxicity	49398802	PDG II SC/JV	OWN	See endnote ⁴⁹
835.2120	Hydrolysis	00102043		OLD	See endnote ⁵⁰
835.2240	Photodegradation in Water	40242801 49542801	PDG II SC/JV	OLD OWN	See endnote ⁵¹
835.2410	Photodegradation in Soil	40190101		OLD	See endnote ⁵²
835.2370	Photodegradation in Air				Not required
835.4100	Aerobic Soil Metabolism	42410002 49622001	PDG II SC/JV	OLD OWN	See endnote ⁵³
835.4200	Anaerobic Soil Metabolism	41970601 49728101	PDG II SC/JV	OLD OWN	See endnote ⁵⁴
835.4300	Aerobic Aquatic Metabolism	43938201 49624902	PDG II SC/JV	OLD OWN	See endnote ⁵⁵
835.4400	Anaerobic Aquatic Metabolism	43982001 49624903	PDG II SC/JV	OLD OWN	See endnote ⁵⁶
835.1230	Leaching / Adsorption / Desorption	41868001 43424901 45170102 49624901	PDG II SC/JV	OLD OLD OLD OWN	See endnote ⁵⁷
835.1410	Volatility - Laboratory				Not required
835.8100	Volatility - Field				Not required
835.8100	Soil Field Dissipation Study	42359101		OLD	

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835.6200	Aquatic Sediment Field Dissipation Study	44030501 44157101		OLD OLD	
835.6300	Forest Field Dissipation Study				Not required
835.6400	Combination and Tank Mixes				Not required
835.7100	Ground Water Monitoring				Not required
850.6100	Environmental Chemistry Methods	49283701 49421001	PDG II SC/JV PDG II SC/JV	OWN OWN	
SS-1065	POTW Treatability Study	48762906	Pyrethroid Working Group	PAY	
SS-1099	Leachability from Treated Wood	49638201 49638202	PDG II SC/JV PDG II SC/JV	OWN OWN	
860.1300	Nature of the Residue: Plants	00025919 00025920 00094393 00094394 43307801 48054603	PDG II SC/JV	OLD OLD OLD OLD OLD OWN	

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DATA MATRIX

Date October 01, 2021		EPA Reg No./File Symbol 93182-5		Page 11 of 26	
Applicant's/Registrant's Name & Address Gharda Chemicals International Inc. 760 Newtown-Yardley Road, Suite 110 Newton, PA 18940		Product Gharda Permethrin Technical			
Ingredient permethrin (CAS No.: 52645-53-1; Chemical Code: 109701)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1300	Nature of the Residue: Livestock	42196702		OLD	
		42196703		OLD	
		42410001		OLD	
		42503201		OLD	
		43458801		OLD	
		43458802		OLD	
		43505201		OLD	
		43713301		OLD	
		43713302		OLD	
		43713303		OLD	
		43713304		OLD	
		43962801		OLD	
		44196101		OLD	
		44196102		OLD	
		44417803		OLD	
860.1850	Confined Rotational Crops	43174401		OLD	

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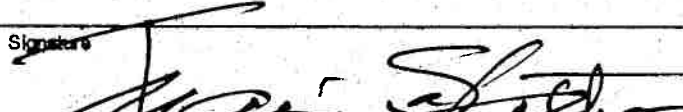
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Applicant's/Registrant's Name & Address Gharda Chemicals International Inc. 760 Newtown-Yardley Road, Suite 110 Newton, PA 18940		Product Gharda Permethrin Technical			
Ingredient permethrin (CAS No.: 52645-53-1; Chemical Code: 109701)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1340	Residue Analytical Methods	00043877		OLD	
		00054724		OLD	
		00064675		OLD	
		00064678		OLD	
		00070916		OLD	
		00072582		OLD	
		00160394		OLD	
		40404002		OLD	
		40446403		OLD	
		40446404		OLD	
		40556804		OLD	
		41641001		OLD	
		42137202		OLD	
		43364705		OLD	
		43962801		OLD	
		44196103		OLD	
		44417801		OLD	
		44417802		OLD	
		44428204		OLD	
		860.1360		Multiresidue Method	

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Ingredient permethrin (CAS No.: 52645-53-1; Chemical Code: 109701)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1380	Storage Stability	00102107	PDG II SC/JV PDG II SC/JV	OLD	
		00110622		OLD	
		00137902		OLD	
		00165525		OLD	
		41560202		OLD	
		42919201		OLD	
		43494701		OLD	
		43505201		OLD	
		44135001		OLD	
		48598605		OWN	
		48598606		OWN	
860.1500	Magnitude of the Residue in Plants: alfalfa	00025992		OLD	
		00026551		OLD	
		00026552		OLD	
		00047632		OLD	
		00047634		OLD	
		00047635		OLD	
		00151832		OLD	
		40072401		OLD	
		42909001		OLD	
		43343101		OLD	

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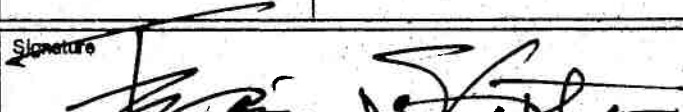
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Applicant's/Registrant's Name & Address Gharda Chemicals International Inc. 760 Newtown-Yardley Road, Suite 110 Newton, PA 18940		Product Gharda Permethrin Technical			
Ingredient permethrin (CAS No.: 52645-53-1; Chemical Code: 109701)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: almond	00100520 00110564 42322903 43938801 48054603	PDG II SC/JV	OLD OLD OLD OLD OWN	
860.1500	Magnitude of the Residue in Plants: leafy greens, subgroup 4A (amaranth (Chinese); chervil; chrysanthemum (garland); cress (garden/upland); dandelion; dock (sorrel); endive (escarole); garden purslane; lettuce (head/leaf); parsley; roquette (argula); spinach; spinach (New Zealand); and winter purslane)	00034780 00034781 00110622 00139530 00140140 00150293 00156265 41065808 42322904 42431401 42979901 43350502		OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: pome fruit, group 11 (apple, pear)	00042620 00042621 00083972 42322905 42838101 48054602	PDG II SC/JV	OLD OLD OLD OLD OLD OWN	
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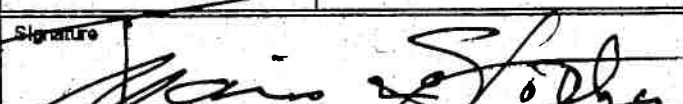


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Ingredient permethrin (CAS No.: 52645-53-1; Chemical Code: 109701)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: artichoke	00145266 42137201		OLD OLD	
860.1500	Magnitude of the Residue in Plants: asparagus	40446401 40446402		OLD OLD	
860.1500	Magnitude of the Residue in Plants: avocado	00144307 41565401 44229501		OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: broccoli; broccoli (Chinese)	00034774 00034778 00080054 41065802 43903501		OLD OLD OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: Brussels sprouts	00034775 00080054		OLD OLD	
860.1500	Magnitude of the Residue in Plants: cabbage	00034779 00080054 00080055 00080057 00080058 00110693 00156265 41065802 48598601	PDG II SC/JV	OLD OLD OLD OLD OLD OLD OLD OLD OWN	
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Date: October 01, 2021	EPA Reg No./File Symbol: 93182-5	Page: 18 of 28
Applicant's/Registrant's Name & Address Gharda Chemicals International Inc. 760 Newtown-Yardley Road, Suite 110 Newton, PA 18940	Product Gharda Permethrin Technical	

Ingredient: permethrin (CAS No.: 52645-53-1; Chemical Code: 109701)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: cauliflower	00034776		OLD	
		00080054		OLD	
		41065802		OLD	
860.1500	Magnitude of the Residue in Plants: leaf petiole vegetables, subgroup 22B (celery; rhubarb)	00025921		OLD	
		00081628		OLD	
		00102082		OLD	
		43350501		OLD	
860.1500	Magnitude of the Residue in Plants: chard (Swiss)	00025921		OLD	
		00034780		OLD	
		00034781		OLD	
		00081628		OLD	
		00102082		OLD	
		00110622		OLD	
		00139530		OLD	
		00140140		OLD	
		00150293		OLD	
		00156265		OLD	
		41065808		OLD	
		42322904		OLD	
		42431401		OLD	
		42979901		OLD	
		43350501		OLD	
		43350502		OLD	

Signature 	Name and Title Frank E Sobotka, PhD	Date 10/1/2021
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Date October 01, 2021	EPA Reg No./File Symbol 93182-5	Page 17 of 28
Applicant's/Registrant's Name & Address Gharda Chemicals International Inc. 760 Newtown-Yardley Road, Suite 110 Newton, PA 18940		Product Gharda Permethrin Technical

Ingredient permethrin (CAS No.: 52645-53-1; Chemical Code: 109701)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: cherry subgroup 12-12A	41065803 44135001		OLD OLD	
860.1500	Magnitude of the Residue in Plants: collards	00150293 00155947 41575901 48639202	PDG II SC/JV	OLD OLD OLD OWN	
860.1500	Magnitude of the Residue in Plants: corn (field/sweet/pop)	00034777 00034778 00069651 00069652 00088973 41052402 41065804 43149501 43350503 43364701 43364702		OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: watercress	00145971 00157481 41565407		OLD OLD OLD	

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Applicant's/Registrant's Name & Address Gharda Chemicals International Inc. 760 Newtown-Yardley Road, Suite 110 Newton, PA 18940		Product Gharda Permethrin Technical			
Ingredient permethrin (CAS No.: 52645-53-1; Chemical Code: 109701)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: cucurbit vegetables, group 9 (melons (incl. cantaloupe); pumpkin; squash (winter))	00126691 00151251 00155167 40556801 40556802 40556803 41565402 41565405 44182701 44182702		OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: eggplant	00129296 41565403		OLD OLD	
860.1500	Magnitude of the Residue in Plants: fennel	00025921 00081628 00102082 43350501		OLD OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: filbert (hazelnut)	00142263		OLD	
860.1500	Magnitude of the Residue in Plants: garlic	40404001		OLD	
860.1500	Magnitude of the Residue in Plants: horseradish	00094610 41565404		OLD OLD	
860.1500	Magnitude of the Residue in Plants: mushrooms	00165524		OLD	
860.1500	Magnitude of the Residue in Plants: onion	40404001		OLD	

Signature

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Applicant's/Registrant's Name & Address Gharda Chemicals International Inc. 760 Newtown-Yardley Road, Suite 110 Newton, PA 18940		Product Gharda Permethrin Technical			
Ingredient permethrin (CAS No.: 52645-53-1; Chemical Code: 109701)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: papaya	00144307 41565401 44453101		OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: peach subgroup 12-12B	00118504 43348101		OLD OLD	
860.1500	Magnitude of the Residue in Plants: peppers (bell/sweet)	00129296 41565403 43494701 43498101		OLD OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: pistachio	00133293 41065805 41641002		OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: tuberous and corm vegetables, subgroup 1C	00025985 00025986 00081578 00081579 43343102 44162601		OLD OLD OLD OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: range grasses	00128728 41565406 48598603	PDG II SC/JV	OLD OLD OWN	

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Ingredient permethrin (CAS No.: 52645-53-1; Chemical Code: 109701)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: soybeans	00026542 00026548 00057091 00110622 00135413 00137902 00144855 00155947 00165525 43364704		OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: tomato	00026543 00026546 00034785 00110622 00140140 41404301 42322903		OLD OLD OLD OLD OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: turnip	00155947 41575901		OLD OLD	
860.1500	Magnitude of the Residue in Plants: walnut	00072833 42322906		OLD OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: apple	42824702		OLD	

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Ingredient permethrin (CAS No.: 52645-53-1; Chemical Code: 109701)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1520	Magnitude of the Residue in Processed Food or Feed: corn (field)	42860601		OLD	
		42910101		OLD	
		43374601		OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: potato	42824701		OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: soybean	00070912		OLD	
		43364703		OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: tomato	41404301		OLD	

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Date October 01, 2021

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Applicant's/Registrant's Name & Address

Gharda Chemicals International Inc.
760 Newtown-Yardley Road, Suite 110
Newton, PA 18940

Product

Gharda Permethrin Technical

Ingredient permethrin (CAS No.: 52645-53-1; Chemical Code: 109701)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1480	Magnitude of the Residue in Meat, Milk, Poultry, and Eggs	00054723		OLD	
		00064674		OLD	
		00064676		OLD	
		00064679		OLD	
		00064680		OLD	
		00064682		OLD	
		00064683		OLD	
		00064684		OLD	
		00064685		OLD	
		00064686		OLD	
		00070914		OLD	
		00070915		OLD	
		00070917		OLD	
		00079385		OLD	
		00079386		OLD	
		00079387		OLD	
		00110624		OLD	
		41560201		OLD	
860.1400	Nature and Magnitude of the Residue in Potable Water				Not required
860.1400	Magnitude of the Residue in Fish				Not required
860.1400	Magnitude of the Residue in Plants Resulting from the Use of Irrigation Water				Not required
860.1460	Magnitude of the Residue in Food Handling Establishments				Not required

Signature

Name and Title

Frank E Sobotka, PhD

Date

10/1/2021



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Ingredient permethrin (CAS No.: 52645-53-1; Chemical Code: 109701)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1900	Field Rotational Crops	44428201		OLD	
		44428202		OLD	
		44428203		OLD	

Signature 	Name and Title Frank E Sobotka, PhD	Date 10/1/2021
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Data Matrix Endnotes for Gharda Permethrin Technical

- ¹ **850.2100** – MRID 41888401 is acceptable and satisfies the data requirement as per the June 20, 2011 EPA memorandum *EFED Registration Review Preliminary Problem Formulation for Permethrin* (DP Barcode: D384703) (PF) and the RED. Passerine data were required as per the Dec. 12, 2012 *Permethrin Generic Data Call-In* (GDCI-109701-1252) (GDCI). These data were submitted under MRID No. 49511902.
- ² **850.2200** – The studies cited are acceptable and satisfy the data requirement as per the PF.
- ³ **850.2300** – The studies cited are acceptable and satisfy the data requirement as per the PF.
- ⁴ **850.1075** – The studies cited are acceptable and satisfy the data requirement as per the PF or the Sept. 30, 2016 *Preliminary Comparative Environmental Fate and Ecological Risk Assessment for the Registration Review of Eight Synthetic Pyrethroids and the Pyrethrins* (DP Barcodes: D425791, D429461, D433338, D433339, D435888) (EFED RA).
- ⁵ **850.1010** – The studies cited are acceptable and satisfy the data requirement as per the PF and the EFED RA.
- ⁶ **850.1025, 850.1035, 850.1045, 850.1055, 850.1075** – The studies cited are acceptable and satisfy the data requirement as per the PF or the EFED RA. Additional data were required in the GDCI that were submitted under MRID 49511901.
- ⁷ **850.1300** – The study cited is acceptable and satisfies the data requirement as per the EFED RA.
- ⁸ **850.1350** – The study cited is acceptable and satisfies the data requirement as per the EFED RA.
- ⁹ **850.1400** – The study cited is acceptable and satisfies the data requirement as per the PF and the EFED RA.
- ¹⁰ **850.1500** – The study cited is acceptable and satisfies the data requirement as per the PF.
- ¹¹ **850.1710, 850.1730, 850.1850** – The studies cited are acceptable and satisfy the data requirement as per the PF and the EFED RA.
- ¹² **N/A** – The studies cited are acceptable and satisfy the data requirement as per the EFED RA. Additional duplicative data are not cited.
- ¹³ **850.3020** – The study cited is acceptable and satisfies the data requirement as per the PF and the EFED RA.
- ¹⁴ **850.3030** – The study cited is acceptable and satisfies the data requirement as per the EFED RA.
- ¹⁵ **850.3040** – The need for these data is dependent upon the results of lower tiered testing and the Agency's determination regarding the need for a refined pollinator risk assessment.
- ¹⁶ **870.6200** – The studies cited are acceptable and satisfy the data requirement as per the June 30, 2017 *Permethrin: Human Health Draft Risk Assessment for Registration Review* (DP Barcode: D414137) (HH RA).
- ¹⁷ **870.3100** – The studies cited are acceptable and satisfy the data requirement as per the HH RA.
- ¹⁸ **870.3150** – The studies cited are acceptable and satisfy the data requirement as per the HH RA.
- ¹⁹ **870.3200** – The studies cited are acceptable and satisfy the data requirement as per the HH RA. Note: MRID 41143801 was incorrectly referenced as 41143802 in the HH RA, which is an invalid MRID.
- ²⁰ **870.3465** – The study cited is acceptable and satisfies the data requirement as per the HH RA.
- ²¹ **870.6200** – The studies cited are acceptable and satisfy the data requirement as per the HH RA.
- ²² **870.4100** – The studies cited are acceptable and satisfy the data requirement as per the HH RA.
- ²³ **870.4200** – The studies cited are acceptable and satisfy the data requirement as per the HH RA.

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- ²⁴ **870.4300** – The studies cited are acceptable and satisfy the data requirement as per the HH RA.
- ²⁵ **870.3700** – The studies cited are acceptable and satisfy the data requirement as per the HH RA.
- ²⁶ **870.3800** – The studies cited are acceptable and satisfy the data requirement as per the HH RA.
- ²⁷ **870.5100** – The study cited is acceptable and satisfies the data requirement as per the June 15, 2011 *Permethrin: Registration Review Scoping Document for Human Health Assessments* (DP Barcode: D384702) (Scoping Document). MRID 42005458, referenced in the HH RA, is invalid.
- ²⁸ **870.5385, 870.5395, 870.5450, 870.5550** – The studies cited are acceptable and satisfy the data requirement as per the Scoping Document. The MRIDs referenced in the HH RA are invalid.
- ²⁹ **870.7485** – The studies cited are acceptable and satisfy the data requirement as per the HH RA.
- ³⁰ **870.7600** – The study cited is acceptable and satisfies the data requirement as per the HH RA.
- ³¹ **870.7800** – These data are not required as per the HH RA.
- ³² **875.1100, 875.1300, 875.1500, 875.1600, 875.1700** – Gharda is a member in good standing of the Agricultural Handler Exposure Task Force (AHETF).
- ³³ **875.2200, 875.2300, 875.2400, 875.2500, 875.2600, 875.2700, 875.2800, 875.2900, 875.3000** – Gharda is a member in good standing of the Agricultural Reentry Task Force (ARTF) and the Outdoor Residential Exposure Task Force (ORETF).
- ³⁴ **201-1, 202-1** – Gharda is a member in good standing of the Spray Drift Task Force (SDTF).
- ³⁵ **890.1100** – The study cited is acceptable and satisfies the data requirement as per the June 29, 2015 EPA memorandum *Permethrin: Data Evaluation Records (DERs) for EDSP Tier 1 Assays* (DP Barcodes: D398301, D401793, D405670) (EDSP DERs).
- ³⁶ **890.1150** – This data requirement is not applicable and the requirement has been satisfied by other scientifically relevant information (OSRI) as per the EDSP DERs.
- ³⁷ **890.1200** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.
- ³⁸ **890.1250** – This data requirement is not applicable and the requirement has been satisfied by other scientifically relevant information (OSRI) as per the EDSP DERs.
- ³⁹ **890.1300** – This data requirement is not applicable and the requirement has been satisfied by other scientifically relevant information (OSRI) as per the EDSP DERs.
- ⁴⁰ **890.1350** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.
- ⁴¹ **890.1400** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.
- ⁴² **890.1450** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.
- ⁴³ **890.1500** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.
- ⁴⁴ **890.1550** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.
- ⁴⁵ **890.1600** – This data requirement is not applicable and the requirement has been satisfied by other scientifically relevant information (OSRI) as per the EDSP DERs.
- ⁴⁶ **850.4100** – These data were submitted in response to the GDCl.
- ⁴⁷ **850.4150** – These data were submitted in response to the GDCl.
- ⁴⁸ **850.4400, 850.4500** – These data were submitted in response to the GDCl.
- ⁴⁹ **850.4550** – These data were submitted in response to the GDCl.
- ⁵⁰ **835.2120** – The study cited is acceptable and satisfies the data requirement as per the EFED RA.
- ⁵⁴ **835.2240** – MRID 40242801 is supplemental as per the EFED RA and additional data were required in the GDCl. These data were submitted under MRID 49542801.

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- ⁵² **835.2410** – The study cited is acceptable and satisfies the data requirement as per the EFED RA.
- ⁵³ **835.4100** – MRID 42410002 partially satisfies the data requirement as per the PF and additional data were required in the GDCI. These data were submitted under MRID 49622001.
- ⁵⁴ **835.4200** – MRID 41970601 partially satisfies the data requirement as per the PF and additional data were required in the GDCI. These data were submitted under MRID 49728101.
- ⁵⁵ **835.4300** – MRID 43938201 partially satisfies the data requirement as per the PF and additional data were required in the GDCI. These data were submitted under MRID 49624902.
- ⁵⁶ **835.4400** – MRID 43982001 partially satisfies the data requirement as per the PF and additional data were required in the GDCI. These data were submitted under MRID 49624903.
- ⁵⁷ **835.1230** – MRIDs 41868001, 43424901, and 45170102 partially satisfy the data requirement as per the PF and additional data were required in the GDCI. These data were submitted under MRID 49624901.